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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/450,399	11/29/1999	ROLF BRUCK	E-40456	7581

7590 12/23/2003
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HOLLYWOOD, FL 330222480

EXAMINER

TRAN, HIEN THI

ART UNIT	PAPER NUMBER
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1764

DATE MAILED: 12/23/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/450,399	BRUCK ET AL.	
	Examiner	Art Unit	
	Hien Tran	1764	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) 12-24 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
 2. Ascertaining the differences between the prior art and the claims at issue.
 3. Resolving the level of ordinary skill in the pertinent art.
 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
3. Claims 1-4, 6, 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Garcea (4,086,063) in view of WO 94/18441 and EP 470,113.

With respect to claims 1, 9-11, Garcea discloses an assembly for cleaning exhaust gas comprising:

a catalyst carrier body 11 for installation in an exhaust pipe casing 17, 18; said carrier body 11 having a longitudinal axis, an interior with a plurality of flow paths and an outer surface; and

at least one substantially plate-shaped retaining element 25, 34 to be fastened in said casing 17, 18, said retaining element having an opening formed therein for receiving said carrier body 11, and a protrusion formed at said opening securing said catalyst body in said opening ;

said protrusion surrounding only part of the outer surface of the carrier body 11 (Figs. 2-3), said retaining element fastened directly on said carrier body 11, and said retaining element at least one holding said carrier body together in a dimensionally stable state and substantially supporting said catalyst carrier body 11 on its own.

The apparatus of Garcea is substantially the same as that of the instant claim, but whether the plate-shaped retaining element 25, 34 in Garcea may be a corrugated plate-shape retaining element instead of a flat plate-shaped one of the instant invention.

However, the language of the claim does not exclude a corrugated plate-retaining element of Garcea. In any event, EP 470,113 discloses the conventionality of providing a flat plate-shaped retaining element extending in a plane including an angle with the longitudinal axis of the catalyst carrier body. Since the shape of the retaining element is not considered to confer patentability to the claim, it would have been an obvious matter of design choice to one having ordinary skill in the art to select an appropriate shape for the plate retaining element of Garcea, such as the flat plate shape as taught by EP 470,113, since such a modification would have involved a mere change in the shape of a component. A change in shape is generally recognized as being within the level of ordinary skill in the art, absence showing any unexpected results. *In re Dailey*, 357 F.2d 669, 149 USPQ 47 (CCPA 1966).

The modified apparatus of Garcea is substantially the same as that of the instant claim, but fails to disclose whether the catalyst carrier may be a metallic catalyst carrier body without jacket tube and having sheet metal layers forming channels.

However, WO 94/18441 (Fig. 2) discloses that the catalyst carrier is a metallic catalyst carrier body having sheet metal layers forming channels.

It would have been obvious to one having ordinary skill in the art to substitute the catalyst carrier body of WO 94/18441 for the catalyst carrier body of Garcea for the known and expected results of obtaining the same results by different means in the absence of unexpected results.

With respect to claim 2, Garcea discloses that the carrier body has first and second parts, the exhaust pipe casing has an inflow chamber and an outflow chamber, said retaining element 25, 34 is to be connected to the casing 17, 18, the chambers permit the exhaust gas to flow through said carrier body from said inflow chamber into said outflow chamber (Figs. 2-3).

With respect to claim 3, Garcea discloses a muffler casing comprising two half-shells 17, 18.

With respect to claim 4, the retaining element of Garcea has two sides and the catalyst carrier body 11 protrudes substantially to the same extent from both sides (Fig. 2).

With respect to claim 6, referred to the rim of the retaining element 25, 34 of Garcea.

4. Claims 5, 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Garcea (4,086,063) in view of WO 94/18441 and EP 470,113 as applied to claims 1-4, 6, 9-11 above and further in view of Bailey et al (4,050,903).

Garcea further discloses provision of mounting a catalytic converter 11 inside a muffler casing having a retaining element 34 with sloped opening for obliquely configuring the body in said opening.

Bailey et al disclose the conventionality of placing a catalytic converter inside a muffler casing having a retaining element with an elliptical opening (Fig. 5).

It would have been an obvious matter of design choice to select an appropriate for the opening structure of the retaining element, such as elliptical structure as taught by Bailey et al in the modified apparatus of Garcea, since such a modification would have involved a mere change in the shape of a component, absence showing any unexpected result. A change in shape is generally recognized as being within the level of ordinary skill in the art, absence showing any unexpected results. *In re Dailey*, 357 F.2d 669, 149 USPQ 47 (CCPA 1966).

Response to Arguments

5. Applicant's arguments filed 9/10/03 have been fully considered but they are not persuasive.

Applicants argue that the reference of Garcea does not show a protrusion formed at an opening. Such contention is not persuasive as Garcea does have a protrusion formed at the opening of the retaining element 25, 34 (see attached Fig. 2 of Garcea).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hien Tran whose telephone number is (571) 272-1454. The examiner can normally be reached on Tuesday-Friday from 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571) 272-1444.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

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HT

December 15, 2003

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Hien Tran

Hien Tran
Primary Examiner
Art Unit 1764